



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Cornwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbalà
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Lawrence B. Bugaisky
Donald J. Featherstone
Michael V. Messinger

Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Jeffrey T. Helvey
Heidi L. Kraus
Albert L. Ferro
Donald R. Banowitz
Peter A. Jackman
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Eldora Ellison Floyd
Thomas C. Fiala
Brian J. Del Buono
Virgil Lee Beaton
Theodore A. Wood
Elizabeth J. Haanes

Joseph S. Ostroff
Frank R. Cottingham
Christine M. Lhuillier
Rae Lynn P. Guest
George S. Bardmesser
Daniel A. Klein
Jason D. Eisenberg
Michael D. Specht
Andrea J. Kamage
Tracy L. Muller
LuAnne M. DeSantis
Ann E. Summerfield
Aric W. Ledford
Helene C. Carlson
Timothy A. Doyle
Gabry L. Longworth
Lori A. Gordon
Nicole D. Dretar

Ted J. Ebersole
Jyoti C. Iyer
Laura A. Vogel

Registered Patent Agents
Karen R. Markowitz
Nancy J. Leith
Matthew J. Dowd
Aaron L. Schwartz
Katrina Yujian Pei Quach
Bryan L. Skelton
Robert A. Schwartzman
Teresa A. Colella
Jeffrey S. Lundgren
Victoria S. Rutherford
Michelle K. Holoubek
Robert H. DeSelms
Simon J. Elliott

Julie A. Heider
Mita Mukherjee
Scott M. Woodhouse
Michael G. Penn
Christopher J. Walsh

Of Counsel
Kenneth C. Bass III
Evan R. Smith
Marvin C. Guthrie

* Admitted only in Maryland
* Admitted only in Virginia
* Practice Limited to
Federal Agencies

September 24, 2004

WRITER'S DIRECT NUMBER:

(202) 772-8771

INTERNET ADDRESS:

VBEASTON@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 10/698,061; Filed: October 31, 2003
For: **Method and Apparatus for Recoding Instructions**
Inventors: Banerjee *et al.*
Our Ref: 1778.0220000

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (6 pages) citing 71 documents;
3. Copies of cited documents AK1, AL1, AM1, AN1, AO1, AP1, AQ1, AR1, AK2, AL2, AM2, AN2, AK3, AL3, AM3, AK4, and AL4; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE KESSLER, GOLDSTEIN & FOX P.L.L.C.

for:

Virgil L. Beaton
Attorney for Applicants
Registration No. 47,415

Reg. No 33,997

VLB/LMY:krd
Enclosures

311421_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Banerjee *et al.*

Appl. No.: 10/698,061

Filed: October 31, 2003

For: **Method and Apparatus for
Recoding Instructions**

Confirmation No.: 7765

Art Unit: 2183

Examiner: *To Be Assigned*

Atty. Docket: 1778.0220000

Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application

does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) before the mailing date of a first Office Action on the merits. No statement or fee is required.

Copies of cited documents AK1, AL1, AM1, AN1, AO1, AP1, AQ1, AR1, AK2, AL2, AM2, AN2, AK3, AL3, AM3, AK4, and AL4 are submitted herewith.

No copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because this application was filed after June 30, 2003.


It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

for:

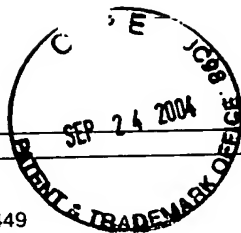

Virgil L. Beaton
Attorney for Applicants
Registration No. 47,415

Reg. No. 33,997

Date: _____

9/24/04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1778.0220000APPLICATION NO.
10/698,061INVENTORS
Banerjee *et al.*FILING DATE
October 31, 2003ART UNIT
2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	3,543,245	11/1970	Nutter			
	AB1	3,631,405	12/1971	Hoff <i>et al.</i>			
	AC1	3,949,372	04/1976	Brioschi			
	AD1	4,077,058	02/1978	Appell <i>et al.</i>			
	AE1	4,084,235	04/1978	Hirtle <i>et al.</i>			
	AF1	4,274,138	06/1981	Shimokawa			
	AG1	4,575,797	03/1986	Gruner <i>et al.</i>			
	AH1	4,774,652	09/1988	Dhuey <i>et al.</i>			
	AI1	4,782,443	11/1988	Matsumoto			
	AJ1	4,835,734	05/1989	Kodaira <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK1	0 109 567 A2	05/1984	EP			N/A
	AL1	0 169 565 A2	01/1986	EP			N/A
	AM1	0 199 173 A2	10/1986	EP			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	1	Bandyopadhyay, A. and Zheng, Y.F., "Combining Both Micro-Code And Hardwired Control In RISC," 5 pages, (published in ACM SIGARCH Computer Architecture News, Vol. 15, Issue 4, pp. 11-15 (September 1987)).
AO	1	Hayashi, T. <i>et al.</i> , "A 5.6-MIPS Call-Handling Processor for Switching Systems," <i>IEEE Journal of Solid-State Circuits</i> , Vol. 24, No. 4, IEEE, pp. 945-950 (August 1989).
AP	1	"High Performance Dual Architecture Processor," <i>IBM Technical Disclosure Bulletin</i> , Vol. 36, No. 2, IBM Corp., pp. 231-234 (February 1993).
AQ	1	McNeley, K.J. and Milutinovic, V.M., "Emulating a Complex Instruction Set Computer with a Reduced Instruction Set Computer," <i>IEEE Micro</i> , IEEE, pp. 60-72 (February 1987).
AR	1	Sweetman, D., <i>See MIPS Run</i> , Morgan Kaufman Publishers, Inc., ISBN 1-55860-410-3, pp.vii-xiv and 423-425 (1999).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1778.0220000APPLICATION NO.
10/698,061INVENTORS
Banerjee *et al.*FILING DATE
October 31, 2003ART UNIT
2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	4,839,797	06/1989	Katori <i>et al.</i>			
	AB2	4,868,740	09/1989	Kagimasa <i>et al.</i>			
	AC2	4,876,639	10/1989	Mensch, Jr.			
	AD2	5,193,158	03/1993	Kinney <i>et al.</i>			
	AE2	5,280,593	01/1994	Bullions, III <i>et al.</i>			
	AF2	5,307,504	04/1994	Robinson <i>et al.</i>			
	AG2	5,335,331	08/1994	Murao <i>et al.</i>			
	AH2	5,420,992	05/1995	Killian <i>et al.</i>			
	AI2	5,438,668	08/1995	Coon <i>et al.</i>			
	AJ2	5,463,700	10/1995	Nakazawa			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK2	0 324 308 A2	07/1989	EP			N/A
	AL2	WO 95/30187 A1	11/1995	WO			N/A
	AM2	WO 95/30188 A1	11/1995	WO			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	2	Turley, J., "LSI's TinyRisc Core Shrinks Code Size: Code-Compaction Technique Squeezes MIPS Instructions Into 16 Bits," <i>Microprocessor Report</i> , Microdesign Resources, pp. 40-43 (October 28, 1996).
	AO	2	
	AP	2	
	AQ	2	
	AR	2	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1778.0220000	APPLICATION NO. 10/698,061
	INVENTORS Banerjee <i>et al.</i>	
	FILING DATE October 31, 2003	ART UNIT 2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	5,467,134	11/1995	Laney <i>et al.</i>			
	AB3	5,481,684	01/1996	Richter <i>et al.</i>			
	AC3	5,481,693	01/1996	Blomgren <i>et al.</i>			
	AD3	5,519,873	05/1996	Butter <i>et al.</i>			
	AE3	5,542,059	07/1996	Blomgren			
	AF3	5,546,552	08/1996	Coon <i>et al.</i>			
	AG3	5,568,646	10/1996	Jaggar			
	AH3	5,574,887	11/1996	Fitch			
	AI3	5,574,927	11/1996	Scantlin			
	AJ3	5,574,928	11/1996	White <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK3	WO 96/24895 A1	08/1996	WO			N/A
	AL3	2 016 755 A	09/1979	GB			N/A
	AM3	2 284 492 A	06/1995	GB			N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	3	
	AO	3	
	AP	3	
	AQ	3	
	AR	3	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1778.0220000APPLICATION NO.
10/698,061INVENTORS
Banerjee *et al.*FILING DATE
October 31, 2003ART UNIT
2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	5,598,546	01/1997	Blomgren			
	AB4	5,619,665	04/1997	Emma			
	AC4	5,619,666	04/1997	Coon <i>et al.</i>			
	AD4	5,632,024	05/1997	Yajima <i>et al.</i>			
	AE4	5,638,525	06/1997	Hammond <i>et al.</i>			
	AF4	5,652,852	07/1997	Yokota			
	AG4	5,664,136	09/1997	Witt <i>et al.</i>			
	AH4	5,685,009	11/1997	Blomgren <i>et al.</i>			
	AI4	5,740,461	04/1998	Jaggar			
	AJ4	5,758,115	05/1998	Nevill			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK4	2 289 353 A	11/1995	GB			N/A
	AL4	2 290 395 A	12/1995	GB			N/A
	AM4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	4	
	AO	4	
	AP	4	
	AQ	4	
	AR	4	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1778.0220000	APPLICATION NO. 10/698,061
	INVENTORS Banerjee <i>et al.</i>	
	FILING DATE October 31, 2003	ART UNIT 2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5	5,774,686	06/1998	Hammond <i>et al.</i>			
	AB5	5,781,750	07/1998	Blomgren <i>et al.</i>			
	AC5	5,794,010	08/1998	Worrell <i>et al.</i>			
	AD5	5,796,973	08/1998	Witt <i>et al.</i>			
	AE5	5,828,859	10/1998	Tanihira <i>et al.</i>			
	AF5	5,854,913	12/1998	Goetz <i>et al.</i>			
	AG5	5,867,681	02/1999	Worrell <i>et al.</i>			
	AH5	5,867,682	02/1999	Witt <i>et al.</i>			
	AI5	5,896,519	04/1999	Worrell			
	AJ5	5,905,893	05/1999	Worrell			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK5						Yes No
	AL5						Yes No
	AM5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	5	
	AO	5	
	AP	5	
	AQ	5	
	AR	5	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1778.0220000	APPLICATION NO. 10/698,061
	INVENTORS Banerjee <i>et al.</i>	
	FILING DATE October 31, 2003	ART UNIT 2183

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA6	5,954,830	09/1999	Ternullo, Jr.			
	AB6	6,012,138	01/2000	Worrell			
	AC6	6,021,265	02/2000	Nevill			
	AD6	6,651,160 B1	11/2003	Hays			09/01/2000
	AE6						
	AF6						
	AG6						
	AH6						
	AI6						
	AJ6						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AK6						Yes No
	AL6						Yes No
	AM6						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	6	
	AO	6	
	AP	6	
	AQ	6	
	AR	6	

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.